

CBM Simulation and Analysis Framework

Tuesday 14 February 2006 16:54 (18 minutes)

The simulation and analysis framework of the CBM collaboration will be presented. CBM (Compressed Baryonic Matter) is an experiment at the future FAIR (Facility for Antiproton and Ion Research) in Darmstadt. The goal of the experiment is to explore the phase diagram of strongly interacting matter in high-energy nucleus-nucleus collisions.

The Virtual Monte Carlo concept allows performing simulations using Geant3, Geant4 or Fluka without changing the user code. The same framework is then used for the data analysis. An Oracle database with a build-in versioning management is used to efficiently store the detector geometry, materials and parameters.

Summary

The simulation and analysis framework of the CBM collaboration will be presented.

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